

# DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D130-1048 REV. A AND INSTRUCTIONS FOR  
CONTINUED AIRWORTHINESS ICA-D130-1048 REV. 0 OR LATER APPROVED REVISION

## 1.0 PURPOSE

The purpose of this Dart Service Instruction (DSI) is to introduce the D130-1048-711/-713 Landing Gear Assemblies and provide instructions for installation and maintenance. The D130-1048-711/-713 Landing Gear Assemblies consist of D130-1048-011/-012 Skidtubes, D130-1048-101 Fwd Crosstube, and D130-1048-201 Aft Crosstube all factory assembled as a complete unit. The D130-1048-711 Landing Gear Assembly includes D130-1048-053 Midtube Wearplates for enhanced skidtube protection. The D130-1048-713 Landing Gear Assembly offers basic wearplate protection.

All components of the D130-1048-711/-713 Landing Gear Assemblies are as defined in Section 4.0 of this Service Instruction. For convenience, only the last three digits of the assembly number are shown in the top row of the table. The quantity of each component included in the D130-1048-711 Landing Gear Assembly, for example, are shown in the column labeled -711.

## 2.0 INSTALLATION

- 2.1 Remove and retain the fairings and footsteps from the existing landing gear per the aircraft maintenance manual.
- 2.2 Remove the existing landing gear from the aircraft per the aircraft maintenance manual. Retain the clamps and bearings which secured the crosstubes to the aircraft structure if suitable for continued service.
- 2.3 Install the aircraft grounding straps to the forward crosstube by following step 3.2.5 of IIN-D130-1048.
- 2.4 Install the aircraft grounding straps to the aft crosstube by following step 3.3.4 of IIN-D130-1048.
- 2.5 Install the landing gear to the aircraft by following steps 3.2.6 to 3.2.10 of IIN-D130-1048.
- 2.6 Reinstall the fairings and footsteps to the landing gear per the aircraft maintenance manual.
- 2.7 Update aircraft logbook to indicate installation of the D130-1048-711/-713 Landing Gear Assembly, as applicable. Update aircraft weight and balance using the data provided in Section 5.0 of this Service Instruction.

## 3.0 MAINTENANCE

Maintain the D130-1048-011/-012 Skidtubes, D130-1048-101 Fwd Crosstube, D130-1048-201 Aft Crosstube, and D130-1048-053 Midtube Wearplates in accordance with ICA-D130-1048.

CANADA	
DEPARTMENT OF TRANSPORT	
AIRCRAFT CERTIFICATION	
BRANCH	
DAO # 01-O-01	
 <b>APPROVED</b>	
BY:	C. PROVENCAL (DE # 03)
DATE:	
CERT. NO.:	
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APPROVED

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REV.	DESCRIPTION	BY	DATE
DESIGN	ZF	<b>DART AEROSPACE LTD</b>	
DRAWN	ZF	HAWKESBURY, ONTARIO, CANADA	
CHECKED	MW	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9811	
APPROVED	NO	TITLE	SHEET 1 OF 2
DE APPR.	CP	LANDING GEAR ASSEMBLY	
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## **4.0 PARTS LIST**

QTY -711	QTY -713	P/N	DESCRIPTION
X		D130-1048-711	LANDING GEAR ASSEMBLY WITH MIDTUBE WEARPLATES
	X	D130-1048-713	LANDING GEAR ASSEMBLY WITH BASIC WEARPLATES
1	1	D130-1048-011	SKIDTUBE INSTL, LH (EC130)
1	1	D130-1048-012	SKIDTUBE INSTL, RH (EC130)
1	1	D130-1048-101	FWD X-TUBE ASSY(EC130)
1	1	D130-1048-201	AFT X-TUBE ASSY(EC130)
1		D130-1048-053	MIDTUBE WEARPLATE KIT

## **5.0 WEIGHT AND BALANCE**

The following weight and balance information is the for the Dart installations only. The weight and balance of all parts removed from the aircraft is the responsibility of the installer.

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D130-1048-711 LANDING GEAR ASSEMBLY WITH MIDTUBE WEARPLATES	110.9 lb 50.3 kg	+/- 0 in +/- 0 m	+/- 0 in-lb +/- 0 m-kg	125.6 in 3.19 m	13929 in-lb 160.5 m-kg
D130-1048-713 LANDING GEAR ASSEMBLY WITH BASIC WEARPLATES	102.9 lb 46.7 kg	+/- 0 in +/- 0 m	+/- 0 in-lb +/- 0 m-kg	125.6 in 3.19 m	12924 in-lb 148.9 m-kg

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CHECKED	MW	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9811	SHEET 2 OF 2
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